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Precision Video Cable for Analog and Digital

RG-59/U Type

Jameco Part Number 232961 (8281-010-100)



Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield *(continued)*

Polyethylene Insulation • Clear Polyethylene Jacket

Indoor Use 80°C	9141	1000	304.8	73.0	33.2	20 AWG (solid)	.200	5.06	TC Double Braid	.305	7.75	75	66%	20.0	65.6	1	.3	1.0
					.031"				98% Shield							3.6	.5	1.6
					BC				Coverage							71.5	2.0	6.6
					9.9Ω/M'				1.1Ω/M'							135	3.5	11.5
					32.5Ω/km				3.6Ω/km							270	4.3	14.1
																360	5.0	16.4
																540	6.2	20.3
																720	7.2	23.6
															750	7.4	24.3	
															1000	9.1	29.8	



20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield

Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Light Blue, White, Orange or Black)

80°C																		
	8281	500 ▲	152.4	37.0	16.8	20 AWG	.198	5.03	TC Double	.305	7.75	75	66%	21.0	68.9	1	.3	.8
		1000	304.8	74.0	33.6	(solid)			Braid							3.6	.5	1.8
						.031"			98% Shield							10.0	.8	2.6
						BC			Coverage							71.5	2.1	6.9
						9.9Ω/M'			1.1Ω/M'	For Plenum version of 8281,						135	3.0	9.8
						32.5Ω/km			3.6Ω/km	see 88281.						270	4.3	14.1
										100% Sweep tested. 5 MHz to 850 MHz.						360	5.1	16.6
																540	6.3	20.7
																720	7.4	24.3
																750	7.6	24.9
															1000	9.2	30.2	

▲500 ft. put-up not available in White.



▲500 ft. put-up not available in White.

Flame-retardant Semi-foam Polyethylene Insulation • PVC Jacket (Available in 10 colors)♦

UL AWM	8281B	NEC:	1000	304.8	85.0	38.6	20 AWG	.198	5.03	TC Double	.305	7.75	75	66%	21.0	68.9	1	.3	.8
Style 1354		CMR					(solid)			Braid							3.6	.5	1.8
(30V 80°C)		CEC:					.031"			98% Shield							10.0	.8	2.6
		CMG FT4					BC			Coverage							71.5	2.1	6.9
							9.9Ω/M'			1.1Ω/M'							135	3.0	9.8
							32.5Ω/km			3.6Ω/km							270	4.4	14.4
																	360	5.1	16.6
																	540	6.6	21.5
																	720	7.8	25.4
																	750	8.0	26.2
																	1000	10.2	33.5

For Plenum version of 8281B, see 88281.
 100% Sweep tested. 5 MHz to 850 MHz.

*8281B available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.



♦8281B available in Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White or Black.

22 AWG Stranded (7x29) .031" Bare Compacted Copper* • Double Tinned Copper Braid Shield

Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)

High-Flex 60°C	8281F	500*	152.4	32.0	14.5	22 AWG (7x29)	.193	4.90	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.9
		1000	304.8	65.0	29.5	.031"			98% Shield BCC							3.6	.5	1.7
						12.2Ω/M'			Coverage							10.0	.9	2.9
						40.0Ω/km			1.7Ω/M'							71.5	2.5	8.0
									5.6Ω/km							135	3.6	11.6
																270	5.1	16.7
																360	6.0	19.7
																540	7.4	24.3
																720	8.7	28.5
																750	8.9	29.2
																1000	10.5	34.4

*500 ft. put-up available in Black only.



• 500 ft. put-up available in Black only.

20 AWG Solid .031" Bare Copper • 98% Tinned Copper Double Braid Shield

Plenum • FEP Insulation • Black Fluorocopolymer Jacket

150°C	88281	NEC:	500†	152.4	46.0	20.9	20 AWG	.185	4.70	TC Double	.271	6.88	75	71%	19.0	62.4	1	.2	.7
		CMP	1000†	304.8	86.0	39.1	(solid)			Braid							3.6	.5	1.6
		CEC:					.032"			98% Shield							10.0	.8	2.6
		CMP FT6					BC			Coverage							71.5	2.3	7.5
							9.9Ω/M'			1.1Ω/M'							135	3.3	10.8
							32.5Ω/km			3.6Ω/km							270	5.1	16.7
																	360	6.1	20.0
																	540	8.0	26.2
																	720	9.7	31.8
																	750	10.0	32.8
																	1000	12.3	40.3

Suitable for Outdoor and Direct Burial applications.



Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • BCC = Bare Compacted Copper • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1.** Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and “nick-resistance” of stranded conductor.

†Spools are one piece, but length may vary $\pm 10\%$ from length shown.



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